

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A wireless communication system, comprising:

a first communication unit including:

a first wireless communication unit for performing wireless data communication,~~including first wireless communication means configured to perform wireless data communication,~~

a first wired communication means-unit for performing~~configured to perform, using a wired connection, a wired data communication and with no wireless data communication, said wired data communication being for transmitting information that is necessary when establishing a wireless link for performing said wireless data communication, before establishing said wireless link, and~~

a first change-over switch for switching between~~means configured to change over whether said wireless data communication should be performed using said first wireless communication means or said unit and wired data communication should be performed using said first wired communication means~~unit; and

a second communication unit including:

a second wireless communication unit for performing~~including second wireless data communication with means configured to perform said first wireless data communication with said first wireless communication means~~unit,

a second wired communication means-unit for performing~~configured to perform, using said wired connection, a wired data communication with no wireless data communication, said wired data communication being for~~

~~receiving said transmitted information, with said first wired communication means~~unit, ~~before establishing said wireless link, and~~

~~a second change-over means~~switch for switching between ~~configured to change over whether said wireless data communication should be performed using said second wireless communication means or said unit and wired data communication should be performed using said second wired communication means~~unit,

~~wherein when said wired connection is being performed, control signals can be exchanged between said first change over means and said second change over means;~~

~~said first wireless communication unit further includes first wired connection detecting means configured to detect whether or not said wired connection is being performed between said first wired communication means and said second wired communication means;~~

~~when said first wired connection detecting means detects that said wired connection is being performed, said first change over means changes over so that said wired data communication is performed, and using the control signals, gives a change-over instruction to said second change over means to change over so that said wired data communication is performed, and~~

~~said second change over means changes over, based on the change over instruction given by said first change over means, so that said wired data communication is performed~~wherein said first communication unit further includes:

a first wired connection detecting section for detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and said second wired communication unit;

an application for detecting a wireless connection; and

a connection control section which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between said first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after said first change-over switch and said second change-over switch have been switched to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after said first change-over switch and said second change-over switch have been switched to said wireless data communication.

2. (Cancelled)

3. (Currently Amended) The wireless communication system according to claim 1, wherein said first ~~wireless~~-communication unit further includes first signal level adjusting ~~means~~unit configured to adjust, when said first wired connection detecting ~~means~~section detects that said wired connection is being performed, a signal level so that said wired data communication is performed using a signal level smaller than the signal level necessary for said wireless data communication.

4. (Currently Amended) A ~~wireless~~-communication unit comprising:

a first communication unit including:

a first wireless communication means configured to perform unit for performing wireless data communication;

a first wired communication means configured to perform, using a wired connection, a unit for performing wired data communication with no wireless data communication, said wired data communication being for transmitting information that is necessary when establishing a wireless link for performing said wireless data communication, before establishing said wireless link;

a first change-over means configured to change over whether said switch for switching between wireless data communication should be performed using said first wireless communication means or said unit and wired data communication should be performed using said first wired communication means unit; and

a first wired connection detecting section for detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and a second wired communication unit;

an application for detecting a wireless connection; and

a connection control section which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal a second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between said first wireless communication unit and a second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after said first change-over switch and said second change-over switch have been switched to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after said first change-over switch and said second change-over switch have been switched to said wireless data communication~~means configured to detect whether or not said wired connection is being performed between said first wired communication means and second wired communication means configured to perform said wired data communication with said first wired communication means using said wired connection;~~

~~wherein, when said first wired connection detecting means detects said wired connection is being performed, said first change-over means changes over so that said wired data communication is performed, and using control signals that can be exchanged between said first change over means and second change over means when said wired connection is being performed, gives a change over instruction to said second change over means configured to change over whether said wireless data communication should be performed using second wireless communication means configured to perform said wireless data communication with said first wireless communication means or said wired data communication should be performed using said second wired communication means, to change over so that said wired data communication is performed.~~

5. (Cancelled)

6. (Currently Amended) A wireless communication unit comprising:

a second communication unit including:

a second wireless communication means configured to perform unit for performing, with a first wireless communication means configured to perform unit for performing wireless data communication, said wireless-wireless data communication;

~~a second wired communication means configured to perform, using a wired connection, a unit for performing wired data communication with no wireless data communication, said wired data communication being for receiving information that is necessary when establishing a wireless link for performing said wireless data communication and has been transmitted by a first wired communication means configured to perform said wired data communication to establish said wireless link using said wired connection, with said first wired communication means, before establishing said wireless link; and~~

~~a second change-over means configured to change over whether said switch for switching between wireless data communication should be performed using said second wireless communication means or said unit and wired data communication should be performed using said second wired communication means unit, wherein~~

~~a first wired connection detection section detects whether or not a wired connection for said wired data communication exists between a first wired communication unit and said second wired communication unit;~~

~~an application detects a wireless connection; and~~

~~a connection control section:~~

~~1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and~~

~~2) responsive to said application detecting that said wireless connection between a first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;~~

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after a first change-over switch and said second change-over switch have been switched to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after said first change-over switch and said second change-over switch have been switched to said wireless data communication~~wherein, when first wired connection detecting means, which is configured to detect whether or not said wired connection is being performed between said first wired communication means and said second wired communication means, detects that said wired connection is being performed, first change over means, which is configured to change over whether said wireless data communication should be performed using said first wireless communication means or said wired data communication should be performed using said first wired communication means, changes over so that said wired data communication is performed using said first wired communication means, and using control signals that can be exchanged between said first change over means and second change over means when said wired connection is being performed, gives a change over instruction to said second change over means to change over so that said wired data communication is performed, and~~

~~said second change over means changes over, based on the change over instruction given by said first change over means, so that said wired data communication is performed.~~

7. (Cancelled).

8. (Currently Amended) A wireless communication method comprising:

a first wireless communication step of performing, using first wireless communication means configured to perform wireless data communication, wireless data communication~~of performing wireless data communication;~~

~~a first wired communication step of~~step of performing a wired~~wired data communication, using first wired communication means configured to perform, using a wired connection, a wired data communication with no wireless data communication, said wired data communication being for transmitting information that is necessary when establishing a wireless link for performing said wireless data communication, before establishing said wireless link;~~

~~a first change-over step of changing over, using first change over means configured to change over whether said~~of switching between~~wireless data communication should be performed using said~~a first wireless communication means~~or said unit and wired data communication should be performed using said~~a first wired communication means~~unit;~~

~~a second wireless communication step of~~step of performing, using second wireless communication means configured to perform said wireless data communication with said first wireless communication~~unit means, wireless data communication;~~

~~a second wired communication step of performing a~~of performing~~wired data communication, using second wired communication means configured to perform, using said wired connection, a wired data communication with no wireless data communication, said wired data communication being for receiving said transmitted information, with said first wired communication~~unit means, before establishing said wireless link; and~~~~

~~a second change-over step of changing over, using second change over means configured to change over whether said~~of switching between~~wireless data communication should be performed using said~~a second wireless communication means~~or said unit and wired data communication should be performed using said~~a second wired communication means~~unit;~~

a first wired connection detecting step of detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and said second wired communication unit;

a connection control step which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to an application detecting that said wireless connection between said first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after switching to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after switching to said wireless data communication~~wherein, when said wired connection is being performed, control signals can be exchanged between said first change-over means and said second change-over means;~~

~~when first wired connection detecting means, which is configured to detect whether or not said wired connection is being performed between said first wired communication means and said second wired communication means, detects that said wired connection is being performed, first change-over step, using said first change-over means, changes-over so that said wired data communication is performed, and using the control signals, gives a change-over instruction to said second change-over means to change-over so that said wired data communication is performed, and~~

~~said second change-over step, using said second change-over means, changes over, based on the change-over instruction given by said first change-over means, so that said wired data communication is performed.~~

9. (Currently Amended) A wireless communication method comprising:

~~a wireless communication step of performing, using first wireless communication means configured to perform wireless data communication, wireless data communication~~of performing wireless data communication;

~~a wired communication step of performing a of performing wired data communication, using first wired communication means configured to perform, using a wired connection, a wired data communication with no wireless data communication, said wired data communication being for transmitting information that is necessary when establishing a wireless link for performing said wireless data communication, before establishing said wireless link; and~~

~~a change-over step of changing over, using first change over means, configured to change over whether said of switching between wireless data communication should be performed using said a first wireless communication means or said unit and wired data communication should be performed using said a first wired communication means, unit;~~

~~a first wired connection detecting step of detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and a second wired communication unit;~~

~~a connection control step which:~~

~~1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and~~

2) responsive to an application detecting that said wireless connection between said first wireless communication unit and a second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after switching to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after switching to said wireless data communication wherein, when first wired connection detecting means, which is configured to detect whether or not said wired connection is being performed between said first wired communication means and second wired communication means configured to perform said wired data communication with said first wired communication means using said wired connection, detects said wired connection is being performed, said change over step, using said first change over means, changes over so that said wired data communication is performed, and using control signals that can be exchanged between said first change over means and second change over means when said wired connection is being performed, gives a change over instruction to second change over means configured to change over whether said wireless data communication should be performed using second wireless communication means configured to perform said wireless data communication with said first wireless communication means or said wired data communication should be performed using said second wired communication means, to change over so that said wired data communication is performed.

10. (Currently Amended) A wireless communication method, comprising:

a wireless communication step of performing wireless data communication, using second wireless communication means configured to perform, with first wireless communication means configured to perform wireless data communication, said wireless data communication;

~~a wired communication step of performing wired data communication, using second wired communication means configured to perform, using a wired connection, a wired data communication with no wireless data communication, said wired data communication being for receiving information that is necessary when establishing a wireless link for performing said wireless data communication and has been transmitted by a first wired communication means configured to perform said wired data communication to establish said wireless link using said wired connection, with said first wired communication means, before establishing said wireless link; and~~

~~a change-over step of changing over, using second change-over means configured to change over whether said of switching between wireless data communication should be performed using said a second wireless communication means or said unit and wired data communication should be performed using said using a second wired communication means unit, wherein~~

a first wired connection detecting step detects whether or not a wired connection for said wired data communication exists between a first wired communication unit and said second wired communication unit,

a connection control step:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between a first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after switching to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after switching to said wireless data communication~~wherein, when first wired connection detecting means, which is configured to detect whether or not said wired connection is being performed between said first wired communication means and said second wired communication means, detects that said wired connection is being performed, first change over means, which is configured to change over whether said wireless data communication should be performed using said first wireless communication means or said wired data communication should be performed using said first wired communication means, changes over so that said wired data communication is performed using said first wired communication means, and using control signals that can be exchanged between said first change over means and said second change over means when said wired connection is being performed, gives a change over instruction to said second change over means to change over so that said wired data communication is performed, and~~

~~said change over step, using said second change over means, changes over, based on the change over instruction given by said first change over means, so that said wired data communication is performed.~~

11. (Previously Presented) A tangible computer readable recording medium including software to control a computer to execute the steps of the wireless communication method according to claim 8.

12. (Previously Presented) A tangible computer readable recording medium including software to control a computer to execute the steps of the wireless communication method according to claim 9.

13. (Previously Presented) A tangible computer readable recording medium including software to control a computer to execute the steps of the wireless communication method according to claim 10.

14. (Cancelled)

15. (Currently Amended) A wireless communication unit comprising:

a first communication unit including:

a first wireless communication means configured to perform unit for performing
wireless data communication;

a first wired communication, means configured to perform, using a wired
connection, a wired data communication with no wireless data communication, said
wired data communication being for transmitting or receiving information that is
necessary when establishing a wireless link for performing said wireless data
communication, before establishing said wireless link unit for performing wired data
communication;

a first change-over means configured to change over whether said switch for
switching between wireless data communication should be performed using said first
wireless communication means or said unit and wired data communication should be
performed using said first wired communication means; and unit;

a first wired connection detecting means configured to detect whether or not
said wired connection is being performed between said first wired communication
means and second wired communication means configured to perform said wired data
communication with said first wired communication means using said wired
connection,

section for detecting whether or not a wired connection for said wired data
communication exists between said first wired communication unit and a second wired
communication unit;

an application for detecting a wireless connection; and

a connection control section which:

1) responsive to said first wired connection detecting section detecting that
said wired connection between said first wired communication unit and said second

wired communication unit exists, uses said wireless data communication to signal a second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between said first wireless communication unit and a second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after said first change-over switch and said second change-over switch have been switched to said wired data communication; and

wherein said first wireless communication unit and said second wireless communication unit communicate using said wireless data communication after said first change-over switch and said second change-over switch have been switched to said wireless data communication,

wherein, (1) when said first wired connection detecting ~~means~~unit detects said wired connection is being performed, said first change-over ~~means~~unit changes over so that said wired data communication is performed, and using control signals that can be exchanged between said first change-over ~~means~~unit and second change-over ~~means~~unit when said wired connection is being performed, gives a change-over instruction to said second change-over ~~means~~unit, which is configured to change over whether said wireless data communication should be performed using second wireless communication ~~means~~unit configured to perform said wireless data communication with said first wireless communication ~~means~~unit or said wired data communication should be performed using said second wired communication ~~means~~unit, to change over so that said wired data communication is performed, (2) when a third wired connection detecting ~~means~~unit, which is configured to detect whether or not said wired connection is being performed between said first wired communication

~~means~~unit and third wired communication ~~means~~unit configured to perform a wired data communication with said first wired communication ~~means~~unit using a wired connection, detects that said wired connection is being performed, a third change-over ~~means~~unit, which is configured to change over whether said wireless data communication should be performed using third wireless communication ~~means~~unit configured to perform said wireless data communication with said first wireless communication ~~means~~unit or said wired data communication should be performed using said third wired communication ~~means~~unit, changes over so that said wired data communication is performed using said third wired communication ~~means~~unit, and using control signals that can be exchanged between said first change-over ~~means~~unit and third change-over ~~means~~unit when said wired connection is being performed, gives a change-over instruction to said first change-over ~~means~~unit, to change over so that said wired data communication is performed, and said first change-over ~~means~~unit changes over, based on the change-over instruction given by said third change-over ~~means~~unit, so that said wired data communication is performed.

16. (New) A wireless communication system according to claim 1, wherein:

said first communication unit is further for signaling said second communication unit through said wired data communication;

said second communication unit is further for responding to said signaling from said first communication unit through said wired data communication with an address corresponding to said second communication unit; and

said first communication unit is further for establishing a link between said first communication unit and said second communication unit based on said address provided by said second communication unit.

17. (New) A wireless communication system according to claim 1, wherein said second communication unit further includes:

a second wired connection detection section for detecting whether or not said wired connection for said wired data communication exists between said first wired communication unit and said second wired communication ~~unit~~unit;

a further application for detecting said wireless ~~connection~~connection; and

a further control section which:

1) responsive to said second wired connection detection section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said first change-over switch to switch from

a) said wireless data communication using said first wireless communication unit to

b) said wired data communication using said first wired communication unit, and

2) responsive to said further application detecting that said wireless connection between said first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said first change-over switch to switch from

a) said wired data communication using said first wired ~~data~~ communication unit to

b) said wireless data communication using said first wireless communication unit.